

## Product datasheet for **RG213040**

### AKAP7 (NM\_004842) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** AKAP7 (NM\_004842) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** AKAP7  
**Synonyms:** AKAP15; AKAP18  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG213040 representing NM\_004842  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGCCAGCTTTGCTGCTTTCTTTCTCAAGAGATGAAGGAAAAATCAGTGAAAAGAACGGAGGGGAGC  
CCGATGACGCTGAACTAGTAAGGCTCAGTAAGAGGCTGGTGGAGAACGCGGTGCTCAAGGCTGTCCAGCA  
GTATCTGGAGGAAACACAGAATAAAAACAAGCCGGGGGAGGGGAGCTCTGTGAAAACCGAAGCAGCTGAT  
CAGAATGGCAATGACAATGAGAACAACAGGAAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG213040 representing NM\_004842  
Red=Cloning site Green=Tags(s)  
MGQLCCFPFSRDEGKISEKNGGEPDDAELVRLSKRLVENAVLKAVQYLEETQNKKNKPEGSSVKTEAAD  
QNGNDNENNRK

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_004842

**ORF Size:** 243 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_004842.4](#)

**RefSeq Size:** 2279 bp

RefSeq ORF: 246 bp

Locus ID: 9465

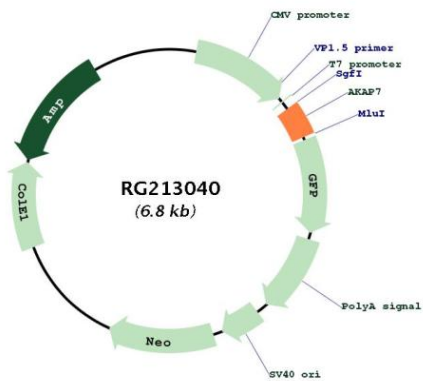
UniProt ID: [O43687](#)

Cytogenetics: 6q23.2

Protein Families: Druggable Genome

**Gene Summary:** This gene encodes a member of the A-kinase anchoring protein (AKAP) family, a group of functionally related proteins that bind to a regulatory subunit (RII) of cAMP-dependent protein kinase A (PKA) and target the enzyme to specific subcellular compartments. AKAPs have a common RII-binding domain, but contain different targeting motifs responsible for directing PKA to distinct intracellular locations. Three alternatively spliced transcript variants encoding different isoforms have been described.[provided by RefSeq, Apr 2011]

**Product images:**



Circular map for RG213040